

Amendments to the Claims

This listing of claims replaces prior versions:

Claim 1 (original): A mobile phone provided with a video camera comprising;

a phone body having a wireless transmitting and receiving function of an image and

sound,

a virtual image optical display device for forming a virtual image on a retina of an eye of a user by passing image information from an image information driving part through an imaging optical system,

an arm foldably provided to the phone body through a hinge,

an eyepiece part of the virtual image optical display device provided to the arm,

a video camera part mounted to the phone body so that a direction of the eye of the user and a direction for taking an image are parallel or approximately parallel when the arm is opened, wherein

a length between a position of the phone body which is contact with the ear of the user and the hinge, an angle between the arm and the phone body when the phone is used, a length of the arm are determined so as to have ergonomically optimum relations with each other.

Claim 2: (currently amended): [[The]] A mobile phone provided with a video camera according to claim 1, comprising:

a phone body having a wireless transmitting and receiving function of an image and

sound.

a virtual image optical display device for forming a virtual image on a retina of an eye of a user by passing image information from an image information driving part through an imaging optical system.

an arm foldably provided to the phone body through a hinge,

an eyepiece part of the virtual image optical display device provided to the arm,

a video camera part mounted to the phone body so that a direction of the eye of the user and a direction for taking an image are parallel or approximately parallel when the arm is opened, wherein

a length between a position of the phone body which is contact with the ear of the user and the hinge, an angle between the arm and the phone body when the phone is used, a length of the arm are determined so as to have ergonomically optimum relations with each other,

and wherein

an imaging optical system of the virtual image optical display device is separated into an optical system on an image information driving part side and an optical system on an eyepiece part side via a folding part, the optical system on an eyepiece part side is mounted on the arm foldably provided to the phone body through the hinge, and the optical system on [[an]] the image information driving part side and the image information driving part are mounted in the phone body.

Claim 3 (original): The mobile phone provided with a video camera according to claim 1,

wherein

the virtual image optical display device is mounted in the arm.

Claim 4 (original): The mobile phone provided with a video camera according to claim 1,
wherein

when a position contact with an ear of the user is Pa, a center position of the eyepiece lens of the optical system on an eyepiece part side is Pb, a point contact with the phone body and the face of the user is Pd, a straight line passing through the center position Pb of the eyepiece lens, horizontal to the eyepiece lens, and vertical to an optical axis of the eyepiece lens is La, and a cross point of the straight line La and a straight line Pa-Pd is Pe, a length between the position contact with the ear of the user and the hinge of the phone body, an angle formed of the arm and the phone body in using the phone, and a length of the arm are determined so that an angle α formed of a straight line between both ears and the line Pa-Pe is in a range $80^\circ \leq \alpha \leq 90^\circ$.

Claim 5 (original): The mobile phone provided with a video camera according to claim 1,
wherein

positions of the arm, the phone body, and the hinge are set so that a ratio of a length between the speaker part and the hinge of the phone body, and a length between an optical axis of the eyepiece part and the hinge is in a range between 2:1 and 15:4.

Claim 6 (original): The mobile phone provided with a video camera according to claim 1,
wherein

the video camera part is rotatably mounted to the phone body.

Claim 7 (original): The mobile phone provided with a video camera according to claim 1,
wherein

a means for detecting an opening state of the arm is provided, and at least driving of the image information driving part is controlled depending on the opening state of the arm.

Claim 8 (original): The mobile phone provided with a video camera according to claim 1, wherein

the phone body is formed of a first body part provided with at least the speaker part and a second body part provided with a microphone so that the phone body is foldable, and the arm including the virtual image optical display device is foldably mounted on the second body part.

Claim 9 (withdrawn): A mobile phone comprising;
a phone body having a wireless transmitting and receiving function of an image and sound,

a virtual image optical display device for forming a virtual image on a retina of an eye of a user by passing image information from an image information driving part through an imaging optical system,

an arm foldably provided to the phone body through a hinge,
an eyepiece part of the virtual image optical display device provided to the arm, and
a key input part provided on the phone body, wherein
a cursor movement input means for moving a cursor displayed on the virtual image optical display device is provided on a side surface or a rear surface of the phone body.

Claim 10 (withdrawn): The mobile phone according to claim 9, wherein
a direct-view-type display device is provided to the phone body on a same side provided,
with the key input part, and information from the key input part is displayed on the direct-view-
type display device when text inputting by the key input part is selected.

Claim 11 (withdrawn): The mobile phone according to claim 10, wherein
a next input requiring part is displayed on the direct-view-type display device after
inputting information indicating completion of input to each part by the key input part in
inputting letters in two or more parts sequentially.

Claim 12 (new): The mobile phone provided with a video camera according to claim 1,
wherein
the virtual image optical display device is mounted in the arm.

Claim 13 (new): The mobile phone provided with a video camera according to claim 1,
wherein
when a position contact with an ear of the user is Pa, a center position of the eyepiece lens
of the optical system on an eyepiece part side is Pb, a point contact with the phone body and the
face of the user is Pd, a straight line passing through the center position Pb of the eyepiece lens,
horizontal to the eyepiece lens, and vertical to an optical axis of the eyepiece lens is La, and a
cross point of the straight line La and a straight line Pa-Pd is Pe, a length between the position
contact with the ear of the user and the hinge of the phone body, an angle formed of the arm and

the phone body in using the phone, and a length of the arm are determined so that an angle α formed of a straight line between both ears and the line Pa-Pe is in a range $80^\circ \leq \alpha \leq 90^\circ$.

Claim 14 (new): The mobile phone provided with a video camera according to claim 1, wherein

positions of the arm, the phone body, and the hinge are set so that a ratio of a length between the speaker part and the hinge of the phone body, and a length between an optical axis of the eyepiece part and the hinge is in a range between 2:1 and 15:4.

Claim 15 (new): The mobile phone provided with a video camera according to claim 1, wherein

the video camera part is rotatably mounted to the phone body.

Claim 16 (new): The mobile phone provided with a video camera according to claim 1, wherein

a means for detecting an opening state of the arm is provided, and at least driving of the image information driving part is controlled depending on the opening state of the arm.

Claim 17 (new): The mobile phone provided with a video camera according to claim 1, wherein

the phone body is formed of a first body part provided with at least the speaker part and a second body part provided with a microphone so that the phone body is foldable, and the arm including the virtual image optical display device is foldably mounted on the second body part.